S/141/61/004/001/022/022 E192/E382

AUTHOR: None

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None given

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TITLE:

Fourth All-Union Conference on Radio-electronics of the Ministry of Specialised Higher and Secondary

Education of the USSR

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,

Radiofizika, 1961, Vol. 4, No. 1, pp. 187 - 196

TEXT: The conference took place during October 24 - 29, 1960 in Khar'kov and was attended by 1 000 delegates from 35 towns in the Soviet Union.

Over 230 papers were read at the conference. The conference was opened by the Deputy Minister of the MVSSO UkrSSR (Ministry of Specialised Higher and Secondary Education of the Ukrainian SSR) Comrade I.S. Dzyubko and by the lectures of Corresponding Member of the AS Ukrainian SSR C.Ya. Braude, entitled "Radio Oceanographic Investigations of the Sea-wave Phenomena" and Corresponding Member of the AS Ukrainian SSR N.D. Morgulis dealing with "Some Problems of the Physics of Thermionic Energy Conversion".

S/141/61/004/001/022/022 Fourth All-Union Conference .... E192/E382

During the concluding plenary session the following survey papers were read:

"Some Problems of Electrodynamics and Thermodynamics of the General Relativity Theory During Accelerated Motion of Macroscopic Bodies with Relativistic Velocities" by V.L. German and "Methods of Experimental Investigation of Electron Beams" by N.S. Zinchenko.

The achievement of the conference was summarised by Corresponding Member of the AS Ukrainian SSR A. Ya. Usikov. The conference recommended that the Fifth All-Union Conference on Radio-electronics should take place in Minsk in the Spring of 1952.

The conference was divided into the following sections: electrodynamics at UHF; UHF electronics; general electronics; quantum radiophysics; radio-wave propagation and radio-astronomy; general radio-engineering; semiconductors and their application in radio-engineering and radio measurements.

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Fourth All-Union Conference ....

S/141/61/004/001/022/022 E192/E382

1. Papers read at the sections of UHF electronics, general electronics and UHF electrodynamics.

In general, it can be said that the papers in these sections were mainly concerned with the investigation of various processes dealing with the interaction of plasma and electromagnetic fields.

The work of 0.G. Zagorodnov et al described the experimental investigation of the nonlinear distortion of sinusoidal electromagnetic waves propagating in a cylindrical plasma waveguide.

The lecture by V.Ye. Golant and A.P. Zhilinskiy dealt with the nonlinear effects which accompany wave propagation in wave-guides containing plasma.

The work of V.D. Shapiro investigated theoretically the stability of longitudinal nonlinear oscillations of plasma electrons with respect to the perturbations whose wavelength is small in comparison with the wavelength of the stationary potential.

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Fourth All-Union Conference ....

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The works of O.G. Zagorodnov et al were devoted to the investigation of the propagation of electromagnetic waves in moving plasma. A detailed analysis of the propagation of electromagnetic waves in plasma waveguides was given in the experimental works of O.G. Zagorodnov et al (three papers). The work of V.P. Shestopalov and I.P. Yakimenko investigated in detail the scattering characteristics of a helix-plasma system.

The paper of N.A. Kuz'min was concerned with the variation method of analysis of the waveguides which are partially filled with a g'rotropic medium.

The problem of wave propagation in a waveguide partially filled with a weakly relativistic plasma in the presence of a constant magnetic field applied along the axis of the system was considered in the work of A.V. Gaponov and M.I. Petelin. The paper of Ya.M. Turover was concerned with the evaluation of the possibility of description of a plasma delay line by telegraph equations.

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S/141/61/004/001/022/022 Fourth All-Union Conference .... E192/E382

The work of V.D. Ivanova and V.S. Mikhalevskiy gave an experimental investigation of the frequency-control of a travelling-wave tube oscillator.

The paper by Yu.F. Filippov was devoted to the investigation of magnetohydrodynamic oscillations of the medium in resonators and waveguides.

Electromagnetic waves propagating in plasma transversely to an external magnetic field were considered in the work of Yu.N. Dnestrovskaya and D.P. Kostomarov.

Several papers were concerned with the investigation of the interaction of plasma with electron and ion beams: in

interaction of plasma with electron and ion beams; in particular, M.S. Kovner investigated the stability of a beam of charged particles and plasma by using the kinetic equation. The paper of V.O. Rapoport was concerned with the phenomenological method of solving the problem of amplification of electromagnetic waves in a plasma beam moving in plasma in the presence of a magnetic field.

The work of V.D. Shapiro considered the deceleration of an electron beam as a result of its interaction with bulk plasma oscillations. Card 5/8

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S/141/61/004/001/022/022 E192/E382

M.A. Gintsburg gave a detailed analysis of the interaction of plasma with ion beams on the basis of the kinetic equation. The problems of high-frequency discharges in rarefied gases were discussed in two papers: the work of S.B. Mochenev gave a theoretical analysis of the influence of irregularities of the magnetic field on the discharge characteristics, while the work of G.N. Zastenker et al gave results of an experimental investigation of the formation of the discharge at frequencies between 3 and 20 Mc/s and pressures from 0.3 to 30 mm Hg. I.A. Savchenko and A.A. Zaytsev presented the results of an experimental investigation of the electron oscillations in plasma.

2. Section of UHF electronics.

Fourth All-Union Conference ....

The papers read at this section dealt with the interaction of plasma with electromagnetic fields; apart from that, a number of papers dealt with the theoretical and experimental investigation of electron devices for UHF.

The opening lecture at the section by V.S. Ganzburg and

The opening lecture at the section by V.S. Ganzburg and V.G. Karmazin surveyed the present state of technology of a high-power klystron amplifier. Card 6/8

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S/141/61/004/001/022/022 E192/E382

Fourth All-Union Conference ....

3. Section of UHF electrodynamics.

Some of the papers read at this section dealt with the propagation of electromagnetic waves in plasma, while a number of papers were concerned with the problems of the electrodynamics of delay systems, waveguides and resonators.

4. Section of general electronics.

During the sessions of this section, 15 papers were read and discussed. Some of the papers were devoted to the investigation of various aspects of electron optics.

5. Section on quantum radiophysics.

Some of the papers in this section dealt with the problem of nuclear magnetic resonance; several papers were concerned with the processes taking place in ferrite media; other papers were devoted to the theory of masers and parametric amplifiers.

6. Section on radio-wave propagation and radio-astronomy. The 37 papers read at this section were devoted to some of the problems of radio-astronomy, experimental and theoretical investigation of radio-wave propagation in nonuniform media,

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S/141/61/004/001/022/022 E192/E382

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methods of investigation of the structure of the ionosphere and to special antenna systems.

7. Section on general radio-engineering.

The 12 papers read at this section covered a fair variety of subjects.

8. Semiconductor section.

Some of the papers read in this section were concerned with the preparation and application of semiconductor devices for radio-engineering; there were also papers dealing with the investigation of internal processes in semiconductors.

9. Radio-measurements section.

The papers in this section were concerned with the development and investigation of quartz crystal oscillators, measurement of the parameters of travelling-wave and backward-wave tubes, measurement of dielectric characteristics of various substances and new methods of measurement,

Card 8/8

3,5/33 9,9827S/185/61/006/005/006/019 D274/D303

AUTHORS:

Usikov, O.Ya., Werman, V.L., and Vakser, I.Kh.

TITLE:

Study of absorption and scattering of millimeter

waves by precipitations. I. II

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 5, 1961,

618 - 640

TEXT: Experimental results are given on the attenuation of millimeter (8.15 to 2.7) radiowaves by rain, as well as basic theoretical results concerning absorption and scattering of such waves by precipitations. In the theoretical investigation, one has to proceed from a rigorous solution of the pertinent electrodynamical equations, taking into account the dispersion of the complex dielectric constant of water in the millimeter range. If the values for the absorption and the effective scattering cross-section for the individual particles are known, as well as the distribution function (of drop-size), then the total absorption and scattering can be found for precipitations with particles of similar or dis-

Card 1/7

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Study of absorption and scattering ...

similar size. The change in wave-intensity as a function of distance, due to absorption and scattering by precipitations, is expressed by

 $I = I_0 e^{-x \sum_{i} N_i Q^n (D_i, \lambda)}$ 

where  $K_1$  - the number of particles with diameter  $D_1$  per unit volume, Q - the effective cross-section of attenuation. The attenuation due to rain, expressed in decibels per kilometer, is

 $\gamma = 0.434 \sum_{i} N_{i} \left(\frac{1}{c \, m^{3}}\right) Q^{n} \left[D_{i}(c \, m), \lambda(c \, m)\right]. \tag{1}$ 

The experimental investigation proceeded from Eq. (1). As inaccurate determination of  $N_i$  may be a chief source of errors, special attention was given to the structure and distribution of rain drops. The method adopted, ensured greater accuracy of measurements over a short track. The field studies were carried out (in 1951-1952) in the neighborhood of Batum, a region with very frequent Card 2/7

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Study of absorption and scattering ...

precipitations (and of varying intensity). Experimental data on the drop-wize distribution were obtained by the well-known method of fixation by means of filter paper. A comparison of samples showed that the size-distribution differs greatly and therefore, the attenuation cannot be uniquely determined from the intensity of the waves. At the same time, data were collected on the distribution of particles according to Ni needed for a comparison of theoretical and experimental values. A figure shows the experimental setup used for attenuation measurements. A klystron was used as a generator. High-frequency elements - waveguides, wave-detectors, etc., were developed to meet the requirement of detecting slight signal-variations. The setup could be used in two ways for detecting wave-attenuation: Either by measuring the signal after it traversed the track onee, or after a double passage. The second method involves the reflection of the signal and it more reliable, in particular with light rain. An absorption track of 50-100 m was used; hence, the sensitivity of the setup had to be very high (so as to measure variations of the order of a hundredth part of a decibel). Such a degree of sensitivity was obtained by compen-Card 3/7

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Saudy of absorption and scattering ...

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sation of the measured signals. A figure shows a diagram of a bridge circuit with two detectors which work by the method of the reflected signal. The rain intensity was measured by means of raindrop meters. The prancipal measuring device was a waveguide attenuator, used for checking the sensitivity and for graduating the indicator scale of the bridge circuit. About 2000 measurements of attenuation were taken. The above setup was used for a wavelength  $\lambda$  = 8.15 mm. For the other wavelengths, the set was slightly modified. Thus, in the case of  $\lambda = 6.8$  mm, a magnetron was used as a generator. Figures show plots of absorption versus rain-intensity for the various wavelengths. The theoretical investigation of attenuation, due to atmospherical inhomogeneities, is considerably simplified if the size of the particles is considerably smaller than the wavelength, i.e.  $D/\lambda \ll 1$ . This inequality holds (in the millimeter range) for storms, clouds, industrial smole, etc. Hence the problem can be solved in the Rayleigh approximation, i.e. the solution of the wave equation is obtained by solving the Laplace equation. The generalized Rayleigh formula for attenuation is

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Study of absorption and scattering ...

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$$\sqrt{\gamma_I} = 0.434 \frac{\pi I l^2}{4} z_1, \tag{5}$$

where

$$\widehat{\sigma_1} = 2\rho c_1 \left( 1 + \frac{c_2}{c_1} \rho^2 + \frac{c_3}{c_4} \rho^3 + \dots \right);$$

for radar reflections:

$$\gamma_{II} = 0.434 \frac{\pi D^2}{4} \sigma_2,$$
 (4)

where

$$\widehat{\sigma_3} = A_1 \rho^4 \left( 1 + \frac{A_3}{A_1} \rho^3 + \frac{A_3}{A_1} \rho^3 + \dots \right).$$

The coefficients of these equations are listed in tables. The difficulties in obtaining exact solutions for these equations can be overcome by means of recursion formulas, (for the coefficients a and b which enter the expressions for the absorption cross-section QI and scattering cross-section QII). Tables list the values Card 5/7

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S/185/61/006/005/006/019 Study of absorption and scattering ...

for  $Q^{I}$  and  $Q^{II}$ . In the general case

$$\gamma^{I} = \sum_{i} N_{i} \left( \frac{1}{c \cdot m^{3}} \right) Q_{i}^{I} \left( c \cdot m^{3} \right) 10^{6} \frac{d\delta}{\kappa \cdot m} \tag{5}$$

and

$$\gamma^{I} = \sum_{i} N_{i} \left( \frac{1}{c.M^{3}} \right) Q_{i}^{I} (c.M^{3}) 10^{6} \frac{d6}{\kappa.M}$$

$$\gamma^{II} = \sum_{i} N_{i} \left( \frac{1}{c.M^{3}} \right) Q_{i}^{II} (c.M^{2}) \cdot 10^{6} \frac{d6}{\kappa.M}.$$
(5)

From the tabulated values for QI, QII, and the experimentally obtained values of  $N_i$ , it is possible to determine the attenuation and the scattering by means of formulas (5) and (6). For  $N_i$ , one

$$N_{l} = \frac{q_{l}}{v_{l}st} = \frac{q_{l}I\left(\frac{MM}{co\theta}\right)}{6\pi v_{l}\sum_{i}q_{i}D_{l}^{3}\left(MM\right)}.$$
 (5.)

By virtue of Eq. (5) and (8), one obtains

$$\gamma' = \sum_{i} 10^{6} N_{i} \left(\frac{1}{c_{M}^{3}}\right) Q_{i}^{I} \left(c_{M}^{2}\right) = \frac{I\left(\frac{M_{i}M}{2000}\right) \sum_{i} \frac{q_{i} Q_{i}^{I}}{v_{i}}}{6\pi \sum_{i} q_{i} D_{i}^{3} \left(\tilde{M}_{M}\right)} \cdot 10^{6}.$$
(9)

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If the rain drops are of the same size, then

$$\gamma_{D} = \frac{I\left(\frac{MM}{\partial \partial D}\right)QI\left(D,\lambda\right)}{6\pi\nu\left(D\right)D^{3}\left(MM\right)},\tag{10}$$

Hence, the attenuation and the radar reflection of millimeter waves do not depend on rain intensity only, but also on the dropsize distribution. Four numerical examples are given which show that the values calculated by formulas (5) and (9) give a true picture of absorption and scattering of millimeter waves by precipitations over the entire millimeter-range. There are 5 figures, 29 tables and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: Van Vleck, Phys. Rev. 71, 413, 1947; 71, 425, 1947; Langmuir, Journ. of Meteor., 5, 175, 1948.

ASSOCIATION: Instytut radiofizyky ta elektroniky AN URSR m. Kharkiv (Institute of Radiophysics and Electronics, AS

UkrSSR, Kharkiv)

SUBMITTED:

January 7, 1961

Card 7/7

: 7:	ACC NR: AP6002314 SOURCE CODE: UR/0373/65/000/006/0003/0009		
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	ORG: none	,	
	TITLE: Curvilinear coordinates in boundary layer theory		
n	SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 6, 1965, 3-9		
	TOPIC TAGS: boundary layer, compressible flow, curvilinear coordinates, space curvature, similarity theory, fluid flow, tensor		7
1 5	ABSTRACT: A curvilinear system of coordinates is introduced to generalize the boundary layer equations of a viscous fluid flow. The equations are first given in		
	$\rho v^{\delta} \frac{\partial v_{i}}{\partial x^{\delta}} = -\frac{\partial p}{\partial x^{\delta}} + \frac{\partial}{\partial x^{\delta}} (p_{ik}) - \frac{\sigma}{c^{\delta}} H_{o}^{\delta} v_{i}$	;	i.
	$\rho T v^{\beta} \frac{\partial S}{\partial x^{\beta}} = \operatorname{div} \left( \frac{\mu c_p}{P} \nabla T \right) + \mu \left( v_{ik} \right)^n + \frac{d}{c^i} H_0^2 \left( v_k \right)^n$ $\frac{\partial}{\partial x^{\beta}} \left( \rho v^{\beta} \right) = 0, \qquad p = \rho R T \qquad (\beta = 1, 2, 3, 4;  i, k = 1, 2, 3)$ and subsequently written to expect the subsequently written the subsequently written to expect the subsequently written the subsequently with the subsequently approximate the subsequently written the subsequently written the subsequently written the subsequently subsequently written the subsequently subsequently written the subsequently su	- 1	• ¿•
	and subsequently written in generalized ourvilinear coordinates using the contravariant base vector $a_1 = \frac{\partial r}{\partial \xi} = e_1 + \frac{\partial y}{\partial \xi} e_2, \qquad a_2 = \frac{\partial r}{\partial \eta} = we_2$	-	2
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 $a_1 = \frac{\partial t}{\partial L} = e_1 + \frac{\partial y}{\partial L} e_1, \qquad a_4 = e_4 + \frac{\partial y}{\partial \tau} e_1$ 

and the metric tensor gik such that

 $\sqrt{g} = \sqrt{\det g_{ik}} = w$ 

The boundary layer equations then become

 $\rho \frac{\partial v^a}{\partial t} + \rho \sigma^k \frac{\partial v^a}{\partial \xi^k} = -\frac{\partial p}{\partial \xi^a} + \frac{1}{\sqrt{g}} \frac{\partial}{\partial \eta} \left[ \mu \sqrt{g} g^{kk} \frac{\partial v^a}{\partial \eta} \right] - \frac{\sigma (H_1)^k v^a}{c^k g}$ 

 $\rho T \frac{dS}{d\mathbf{r}} = \frac{1}{\sqrt{s}} \frac{\delta}{\delta \eta} \left[ \frac{\mu c_p}{P} \sqrt{s} g^{ss} \frac{\partial T}{\partial \eta} \right] + \mu g^{ss} \left\{ \left( \frac{\partial s_s}{\partial \eta} \right)^2 + \left( \frac{\partial s_s}{\partial \eta} \right)^3 \right\} + \frac{\mathrm{d} (H_b)^3}{\varepsilon^2 g} \left( (v_1)^3 + (v_2)^3 \right)$ 

 $H_1 = wH_0 = w(x, 0, z, t)H_0(x, z, t)$ 

 $\frac{\partial}{\partial \mathbf{r}} \left( \rho \sqrt{g} \right) + \frac{\partial}{\partial \xi^k} \left( \rho \sqrt{g} v^k \right) = 0, \quad \frac{\partial \rho}{\partial \eta} = 0 \qquad \begin{pmatrix} k = 1, 2, 3 \\ \alpha = 1, 3, 1 \end{pmatrix}.$ 

Next, a Dorodnitsyn transformation is made to eliminate the density from the above equations. For a two-dimensional incompressible flow the boundary layer equations are shown to be transformed to a Von Mises form if w is set equal to 1/v<sub>1</sub>. The generalized boundary layer equations are then used to obtain a self-similar solution for a compressible, unsteady, two-dimensional flow. The author, A. G. Boyev, expresses his sincere thanks to A. S. Bryukhovetskiy and A. M. Glutsyuk for evaluating the results of this work. Orig. art. has: 52 equations.

SUB CODE: 20/ SUBM DATE: 14May65/ ORIG REF: 007/ OTH REF: 002

BOEN, A.C. (Khor'kov); Germin, V.L. [decomped]

Curvilinear coordinates in the theory of bourdary layer. Isv.
All Serie. Neith. ac. 613-9 B-D '65.

(EETA 18412)

L = 21983-66 EWT(1)/ETC(f)/EPF(n)-2/EWG(m) IJP(c) AT

ACCESSION NR: AP5025993

UR/0294/65/003/005/0765/0770

621. 313. 2:538, 4

AUTHOR: German, V. O.; Morozov, M. G.

21 94. 5

TITLE: Direct current plasmatron and some experimental results of its operation

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 5, 1965, 765-770

TOPIC TAGS: plasma generator, plasma physics, temperature measurement

ABSTRACT: The article shows a longitudinal section of the plasmatron (See Enclosure 01). The electrode is in the form of cylindrical tubes, whose outer surfaces are cooled with water. The diameter of the nozzle 5 is 30 mm, and the inner diameter of the rear electrode 1 is somewhat larger than the diameter of the nozzle. The body of nozzle 6 and the vortex chamber 3 are electrically insulated from the body of the rear electrode by Plexiglass packing 2. To avoid erosion of the electrodes and to maintain stable burning of the arc, the working gas is introduced tangentially into the vortex chamber; the regulating valve on the vortex chamber 7 makes it possible to change the rate of whirling inside the nozzle at constant gas feed. A copper insert 9 in the rear electrode limits the Cord 1/3

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ACCESSION NR: AP5025993

free displacement of the arc. The plasmatron was fed by a direct current generator with a rated voltage of 750 volts. A table shows the characteristics of the unit. Depending on the consumption of the working gas and the polarity of the electrodes, the power in the arc varied from 200 to 355 kilowatts. The efficiency changed with a change in the polarity of the electrodes; the highest value was achieved when the nozzle served as the cathode (0.7-0.75). The consumption of working gas varied from 19 to 48 grams/sec. The mean velocity of the gas at the nozzle varied from 350 to 750 meters/sec, and the mean mass temperature of the gas stream varied from 2500 to 4500 K. An investigation of the pulsations of the electric parameters and the rotation of the arc showed the presence of vibrations, divided into three groups according to frequency: of the orders of 1, 103, and 104 cycles. "The authors express their thanks to G. A. Lyubimov for his interest in the work and for his help." Orig. art. has: 6 figures and 1 table

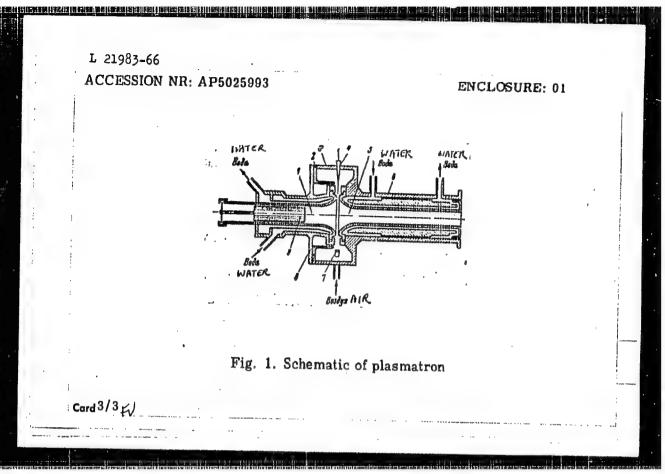
ASSOCIATION: Nauchno-issledovatel'skiy institut mekhaniki MGU im. Lomonoso-(Scientific Research Institute for Mechanics, MGW)

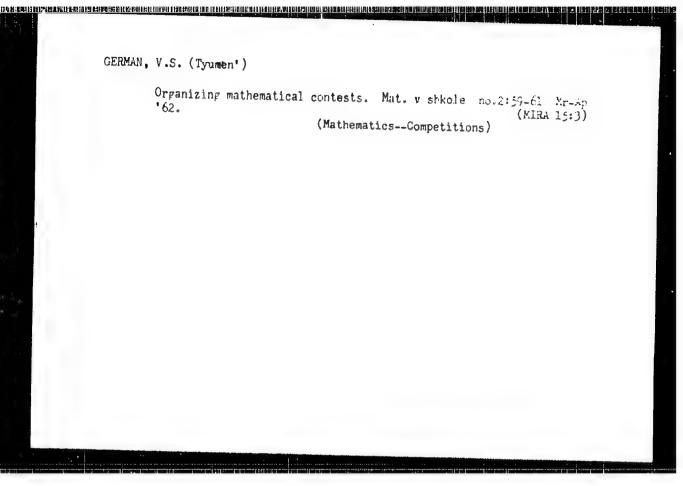
SUBMITTED: 01Dec64

ENCL: 01 SUB CODE: 20

NR REF SOV: 007

OTHER: 004





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Team for studying the experience gained in the organization and work of central factory laboratories, Zav. lab. 31 no.9:1154-1155 165.

(MIRA 18:10)

MASLOV, V.A., inzh.; GERMAN, V.T., inzh.

Resistance of welded joints in low-carbon steel to corrosion by alkali solutions. Svar. proizv. no.3:36-37 Ag '62. (MIRA 15:11)

1. Sumskiy mashinostroitel'nyy zavod im. M.V.Frunze.

(Steel--Corrosion)

ACCESSION NR: AP4025737

\$/0184/64/000/001/0028/0030

AUTHORS: Maslov, V. A. (Engineer); Ternyuk. M. I. (Engineer); German, V. T. (Engineer)

TITLE: Effect of deformation on the corrosion resistance of steel 18-8

SOURCE: Khimicheskoye mashinostroyeniye, no. 1, 1964, 28-30

TOPIC TAGS: steel, steel 18-8, dis stamping, annealing, corrosion, acetic acid corrosion, nitric acid corrosion, corrosion resistance, corrosion rate, deformation, steel deformation

ABSTRACT: Caps were die cast with a h% deformation from 1.5-mm thick sheets of steel lkhl8N9T and khl8N12M2T. One half of the caps were subjected to a repeat stamping with an additional deformation of the same magnitude. After each stamping one half of the samples were tempered by immersion in water following 5 minutes heating at 1050-1070C. The polished samples, 5 cm in diameter and 2 cm in height, were subjected to treatment with various concentrations of acetic or nitric acid. The results of corrosion tests of steel khl8N12M2T in acetic acid showed that the corrosion rate of the original steel sheet amounted to 0.0016-0.0097 gm/m² hour for Card 1/2

ACCESSION NR: AP4025737

acid concentrations of 5-98% within a temperature range of 20-80C. At boiling temperature there was a sharp rise in corrosion rate, with increased concentration of acid from 10 to 60%, while a further increase in acid concentration reduced the corrosion rate to 0.0292 gm/m² hour. The corrosion rate of samples subjected to one or two stampings was somewhat higher, amounting to 0.0018-0.0125 gm/m² hour. Here, too, the corrosion rate remained practically unchanged up to 80C. The tempered stamped samples showed a somewhat higher corrosion rate than the non-tempered. Corrosion tests of samples from steel lKhl8N9T revealed an increased corrosion rate of the original steel sheet at higher acid concentrations and temperatures. Here, too, higher corrosion rates were observed in stamped samples, and still higher rates in stamped and tempered. Orig. art. has: 2 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: ML

NO REF SOV: 003

OTHER: OOO

Card 2/2

MCCESSICE NR: APA013295

\$/0135/64/000/002/0033/0034

ANTHOPS: Maslov, V. A. (Engineer); German, V. T. (Engineer)

TITLE: Corrosion resistance of steinless steel welds in some scids

SCURCE: Svarochnoye proizvodstvo, no. 2, 1964, 33-34

TOFIC TAGS: stainless steel, steel, corrosion stability, welded connection, weld corrosion stability, stainless steel weld, welding, steel acid corrosion, 1Kh18N9T steel, Kh18N12M3T steel, arc welding, EA-400/10 electrode, corrosion test

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ABSTRACT: A short report is presented on the results obtained in corrosion testing of butt-welded strinless steels 1Khl8N9T and Khl8N12M3T. Sheets 6 mm thick were arc-welded by EA-400/10 electrodes  $\Lambda$  mm in diameter. Samples 80 x 20 x 5 mm were cut out of the welded connections and tested in acids for general and intergranular corrosion. The results were evaluated according to the loss of metal weight after the testing period. The MA test for intergranular corrosion (not described in the text) showed that these steels are satisfactorily resistant to corrosion. The general tests showed that the velocity of steel and welded connection corrosion in acids remained practically constant at 20-60C, not exceeding 0.0090 g/m²-hr. The

Card 1/2

ACCESSION NR: APA013295

samples retrined their metallic luster after testing, and the boundaries of the seams were not revealed. Orig. art. has: 2 tables.

ASSOCIATION: Sumskoy mashinostroitel'ny\*y zavod im. M. V. Frunze (Sumy\* Fachine Construction Plant)

SUBMITTED: 00

DATE ACQ: 26Feb64

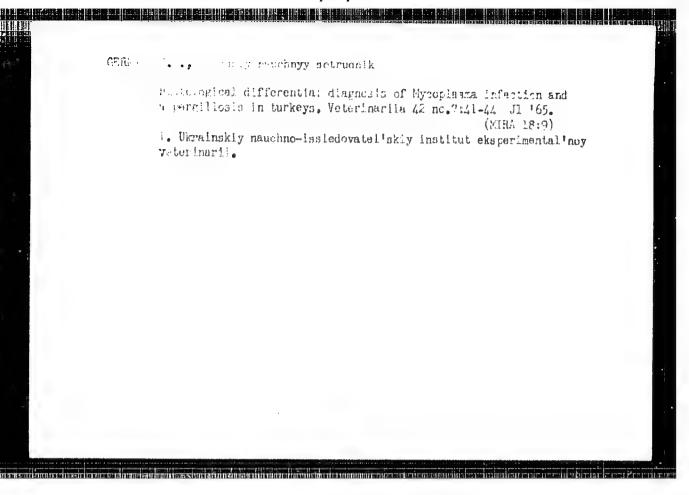
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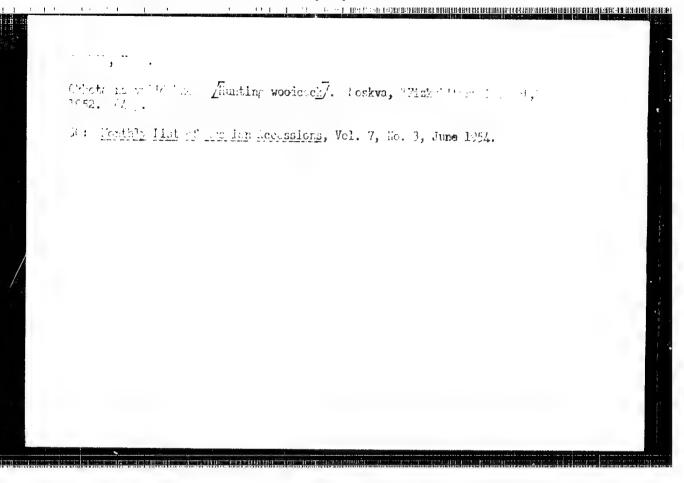
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Card 2/2



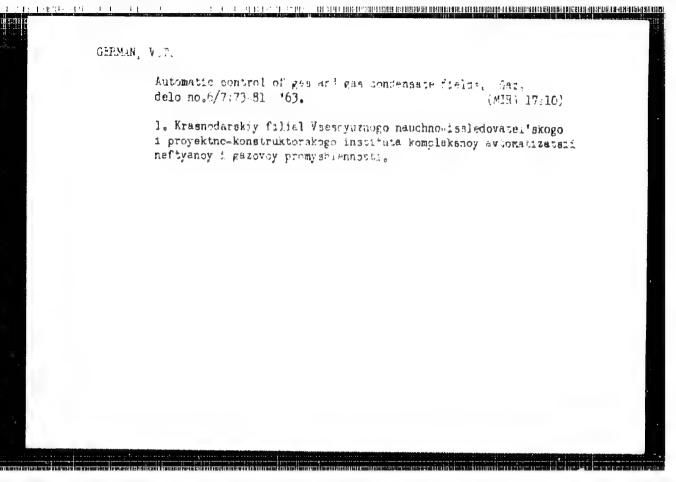


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SO: Monthly List of Ru	ssian Accessions, Vol	7, Do 9, Dec 1954	

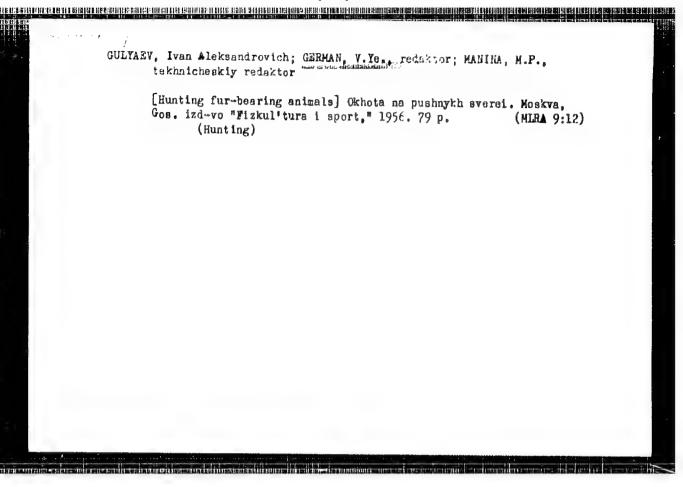
GERMAN, Vladimir Yevgen'yevich; PETROVSKAYA, Ye.K., redaktor; SHALIYGINA,
G.A., tokhnicheskiy redaktor

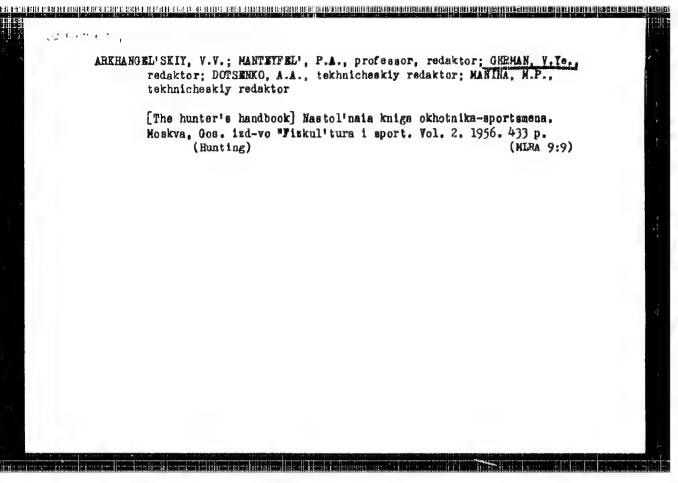
[Bird hunting in spring] Vesenniaia okhota po peru. Moskva, Gos.
izd-vo "Fizkul'tura i sport," 1956. 40 p. (MIRA 9:9)

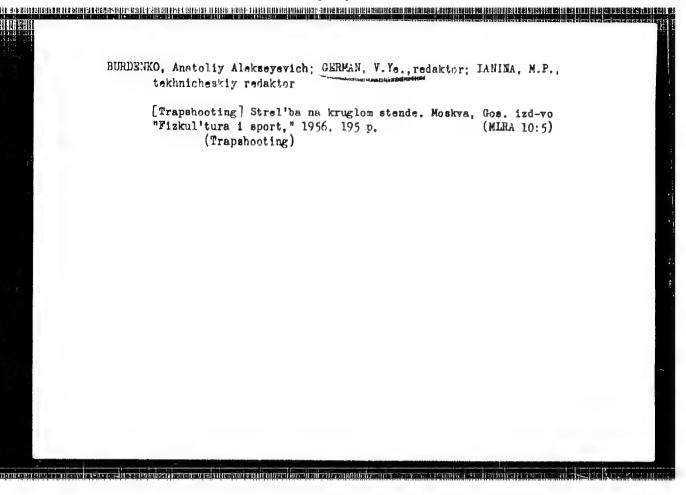
(Fowling)

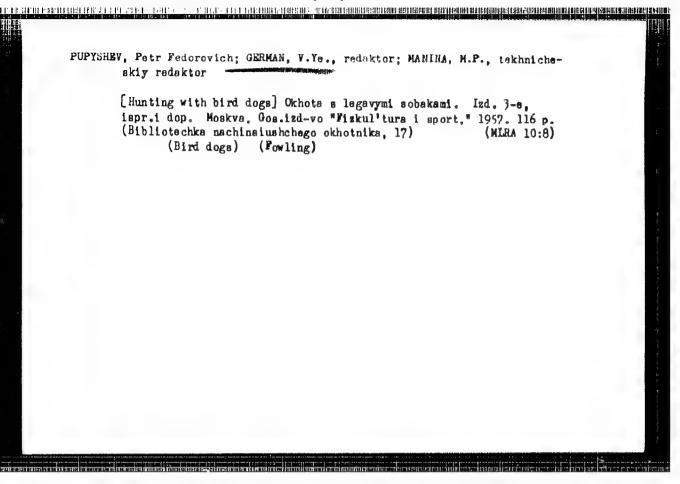


PROKOFITEVA M.T. dektor veterin, mark, Dibova, le., vand vescrit rauk, Kiphila, V.V., miedshiy naudnnyy sotrodniz, Dieman, V.V., miedshiy naudniz, Dieman, Dieman, V.V., miedshiy naudniz, Dieman, Diema





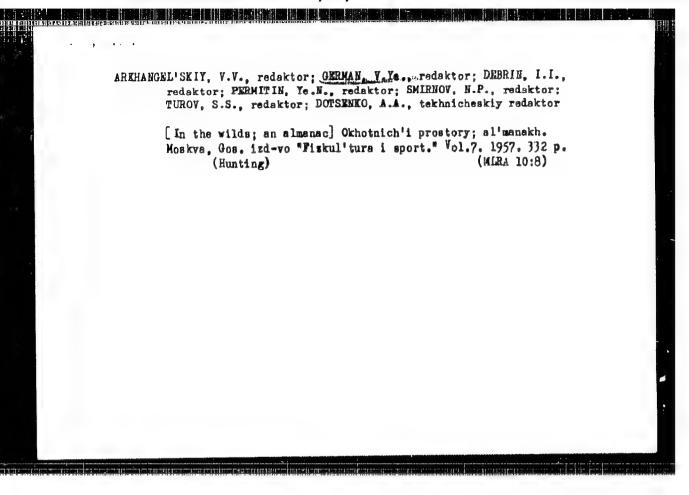




GERMAN, Vladimir Vaysan'yerich PAPMEL', S.V., redaktor; MANINA, M.P., teknnicheskiy redoktor

[Hunting swamp and meadow birds] Okhota na bolotauiu i lugovuiu dich. Izd. 2-oe, ispr. i dop. Moskva, Gos.izd-vo \*Piskul'tura i sport, \* 1957. 103 p. (MIRA 10:10)

(Game and game birds)



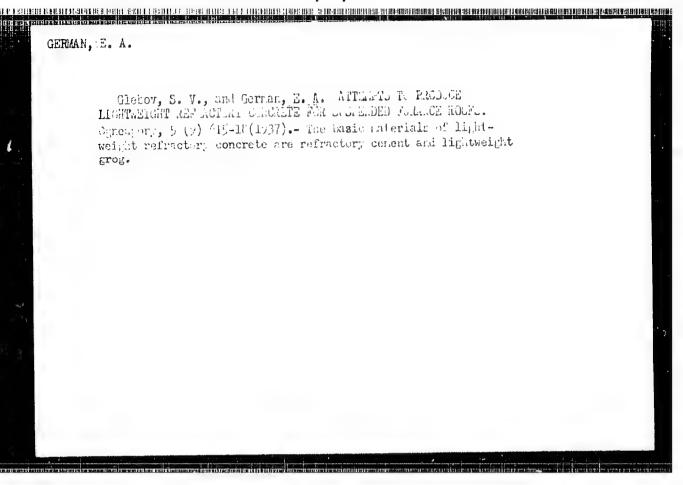
PANOV, Vladimir Akimovich; CERMAN, V.Ye., red.; SHPEKTOROVA, Ye.I.,
tekhn.red.

[With Czechoslovak and Rumanian hunters] V gostiakh u chakhoslovatskikh i rumynakikh okhotnikov. Moskva, Gos.izd-vo \*Fizkultura i sport, \*1960. 63 p.
(Gzechoslovakia—Hunting) (Rumania—Hunting)

(Czechoslovakia—Hunting)

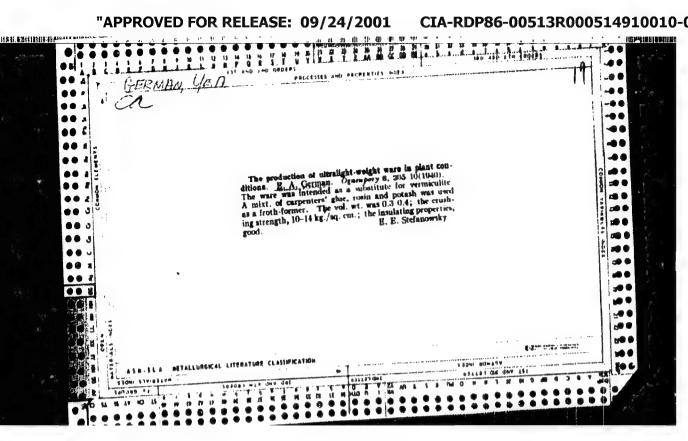
ENT(m) ENP(v)/T/ENP(k)/ENP(t)/ETT LUP(c) NB/JD/HN/HW ACC NR: AP6019433 (A)SOURCE CODE: UR/0135/66/000/006/0037/0038 AUTHOR: Maslov, V. A. (Engineer); German, V. T. (Engineer) ORG: none TITLE: Corrosion' resistence of welded joints in stainless steels in Some aggressive media SOURCE: Svarochnoye proizvodstvo, no. 6, 1966, 37-38 TOPIC TAGS: corrosion resistance, welding technology, stainless steel, METAL. JOINING ABSTRACT: The starting materials were stainless steels types Kh18N10T and Khl7Nl3MZT with a thickness of 6 mm. Sheets with dimensions of 400 x 100 x 6 mm were butt welded with type EA400/100 electrodes with a diameter of 4 mm. The opening between the edges was v-shaped with a truncation of 2 mm; the angle of the opening was  $60 \pm 5^{\circ}$ , and the gap 0.5-1.5 mm. A table shows the chemical composition and the mechanical properties of the basic metal and the welded joints. Samples were tested in a series of aggressive solutions. The results of these corrosion tests, at a temperature of 20-80°C, are also shown in a table. It can be concluded that steels Kh18N1OT, and Kh17N13MZT and their welded joints have a high corrosion resistance in a number of Card 1/2 UDC: 621.791.052:620.193:669.15-194

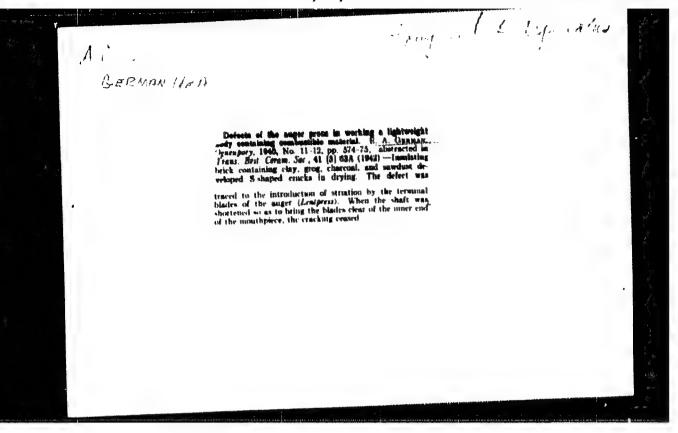
ACC NR: A	P6019433		0	
steel Khlö	10T is approxima	tely 5 to 10 times gro	osion of these steels the rate of corrosion on sater than that of steel Orig. art. has: none.	
SUB CODE:	11/ SUBM DATE:	none		
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	1			-
Card 2/2	pb			

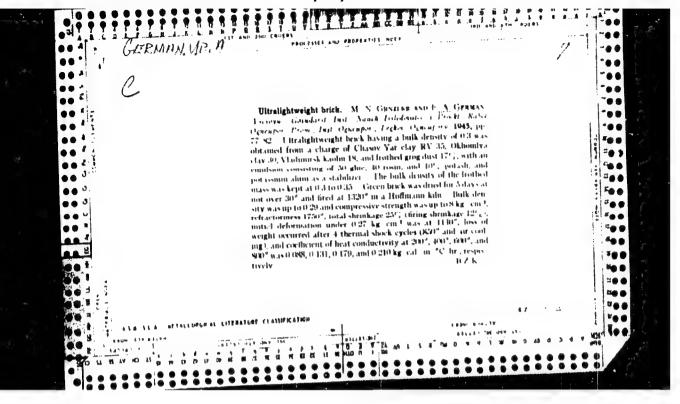


uletov, S. V., and berran, S. A. robol. Tele Fixed. On Land-Kill Cash Men. AMARCHER STOCKE. Ognesqury., 6 (7) 1272-6 (1936).- Experiments showed that somelithic floors made from 60% crushed brick and 20% (by volume) of aluminous conent nere satisfactory for ours used in burnel kilms for firing brick under grog products.

#### CIA-RDP86-00513R000514910010-0







GERMAN, E. A.

Frothed grow lightweight refractories. C. 7. GLLL7, E. h. GENZLEH, AND E. A. okara. Vsesoyum. Resedent. Inst. Land.

Issledovaled. I Prookt. and the area. Iron., inst. depender,

Log Yev, Cleapor, 1945, pr. 83-113.— Extensive data are given on
the ranufact of of frothed lightweight propertories. rest
results were obtained with a mix composed of 70% ground frothed
lightweight brick (Okhomlya clay b). Chasov-Yar clay 15, /ladisirsk
kaolin 15, frothed lightweight brick dast 25%) and 30. binder (Chasov-Yar clay
and 2, sulfite cellulose extract). characteristics of this crick were
as follows: complete shrinkage 0.0%; balk density 0.96. compressive
strength 31.5 k/cm.2, refractoriness 1/10°C., and reheat shrinkage 0.5%.
Turther improvement is possible by raising the firing temperature to
lh10° and using pround frothed lightweight brick fired at 1h10°.

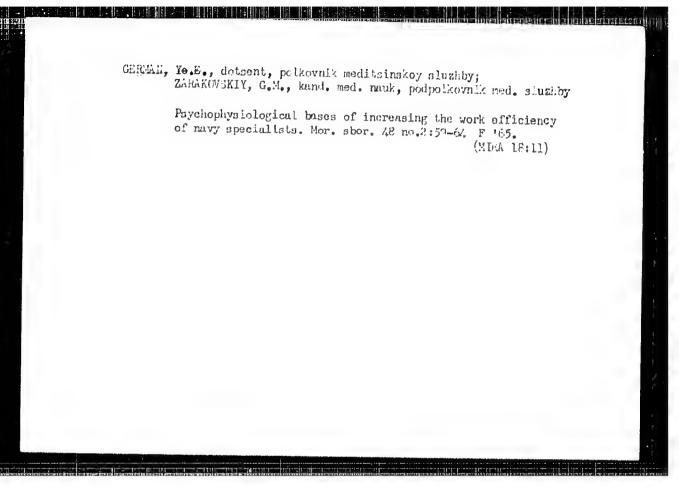
5.7.K.

IL LEGICE ESPECIALISTE DE CUIT DE LE COLUMN DE L'ACTUALISTE DE CUIT DE L'ACTUALISTE SE COLUMN DE L'ACTUALISTE DE CUIT DE CUIT DE L'ACTUALISTE DE CUIT GERMAN, E. A. Ranufacture of heat resistant lightweight refractories with a bulk density of c.9 to 1.0 by using conscatible admixtures. S. V. Thisboy, TA. A. GOLDIN, E. A. GERLAN, And J. M. CHEShall. Vsesoyuz. losudarst. Inct. Ja c.-Issleibvatel i Freekt. Rabot Ognesjor. From., Inst. Ognespor, Lerkov. Ognesporg, 1/45, pt. 114-5/.- Extensive data are given on laboratory and connercial scale capufacture of lightweight refractories with the aid of combustible admixtures. A flowement is diven.

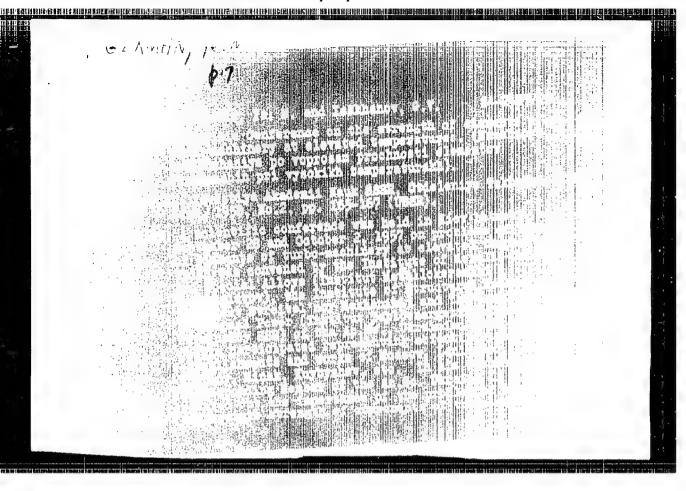
GERMAN, Ye.E., polkovnik meditsinskoy sluzhby, dotsent; ZARAKOUSKIY, G.M., podpolkovnik meditsinskoy sluzhby, kand. med. nauk

Role of the ship physicians and fleet units in the solution of problems concerning the physiological aspects of the work of navy specialists.

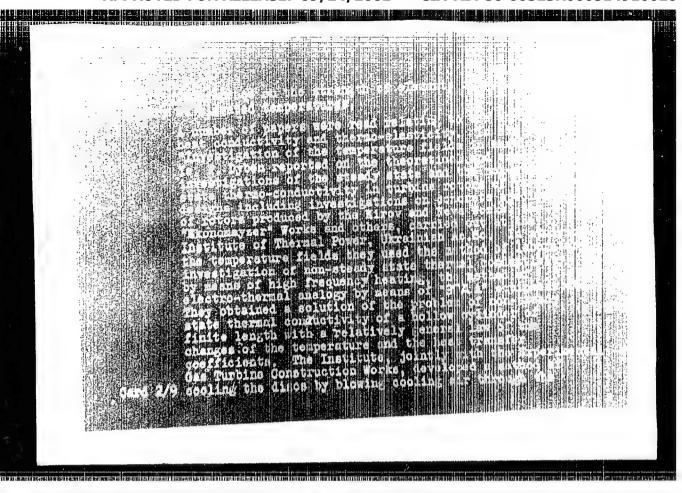
Voen.-med. zhur. no.10:60-62 '64. (MIRA 18:7)

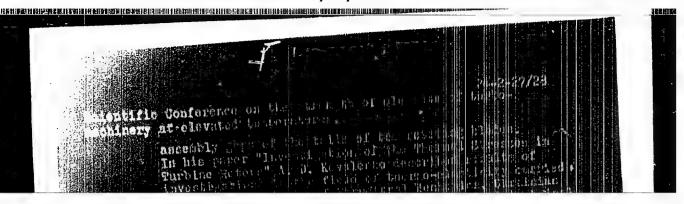


"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514910010-0



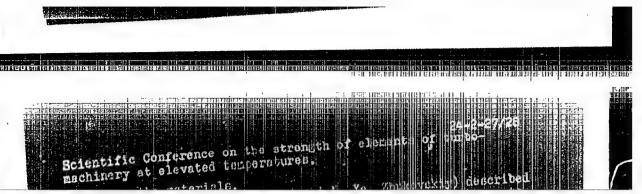
"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514910010-0

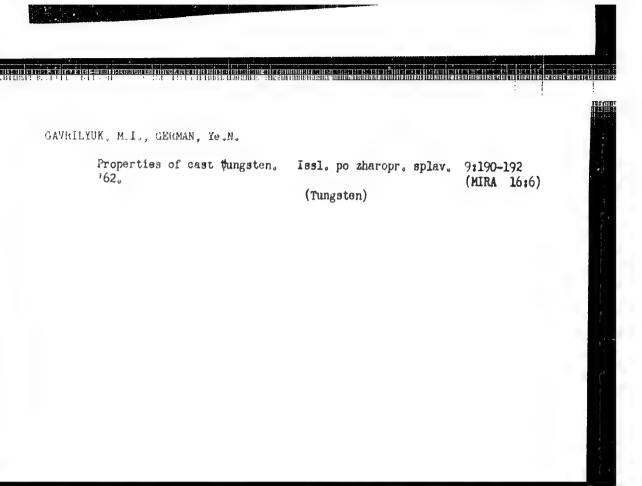












#### "APPROVED FOR RELEASE: 09/24/2001

#### CIA-RDP86-00513R000514910010-0

L 46007-66 TW (8) 166 B) 1 WT(L) 371 TJ (6) J3 WH/F9/29/J9/J9 ACC NR: AP6025939 SOURCE CODE: UR/0226/66/000/007/0062/0068

AUTHOR: German, Ye. N. (Moscow); Glebova, R. D. (Moscow)

ORG: None

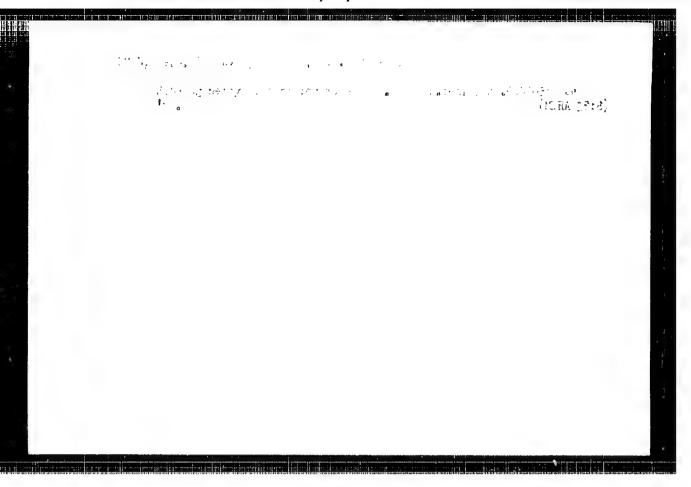
TITLE: Destruction of cermet materials

SOURCE: Poroshkovaya metallurgiya, no. 7, 1966, 62-68

TOPIC TAGS: crack propagation, molybdenum, nickel, metal pressing, powder metal sintering, sintering furnace, eeemer

ABSTRACT: The authors present data on the initial development of cracks under a load. Crack propagation is studied on specimens made from molybdenum and nickel. The effect of molding pressure and sintering temperature on crack formation and propagation during bending tests is considered. The initial materials used were powdered nickel (GOST 9722-61) and powdered molybdenum (TTSVM-7-153-54). These powders have the following grain dimensions: nickel 86% below 30  $\mu$ , molybdenum 97% below 5  $\mu$ . 10×2×80 mm rectangular specimens were produced by pressing with subsequent sintering. These were used for determining the effect of molding pressure and sintering temperature on strength. Pure nickel specimens were pressed at specific pressures of (2, 3, 4 and 5)·10<sup>8</sup> N/m<sup>2</sup> and sintered in a hydrogen medium at 1273, 1373 and 1473°K for two hours. Molybdenum specimens were pressed at specific pressures of (2, 3, 4, 5)·10<sup>8</sup> N/m<sup>2</sup> and sintered in a vacuum furnace at 2073, 2173 and 2273°K for two Card 1/2

THE THE PROPERTY OF THE PROPER 6 45007-56 ACC NRt AP6025939 hours. Microcracks were studied on etched microsections. The specimens were loaded gradually and inspected for deformation. Photographs are given showing various kinds of crack formation and propagation. The test results show that cermet materials do not have identical failure characteristics. This is best demonstrated by sintered nickel and molybdenum. Take cast alloys they can be destroyed both along grain boundaries and within the grain itself depending on manufacturing technique and stress conditions. The basic reasons for premature failure of cast and deformed alloys are inclusions, segregations, microcracks, and sharp pore angles. Optimum procedure for producing sintered nickel and molybdenum results in strong grain boundaries. This in turn produces complex failure characteristics. Orig. art. has: 8 figures, 2 tables. OTH REF: 003 SUB CODE: 11/ SUBM DATE: 03Feb66/ ORIG REF: 002/



GERMAN, Ye.V.; KISLYAKOV, V.N.; REYNIN, I.V.

Geology and geomorphology of the Yamal Peninsula, a new region with prospects for finding oil and gas. Trudy VNIGRI no.225:311-329 '63. (MIRA 17:3)

LEN'ROY, V.I., deking veterin, weak, 11578/75, 1.5... Fact. Sector, manh, Yakhako, Yak., mistanty machemy materima, Miliakota I.e., mistanty nauchemy materima, Miliakota I.e., mistanty nauchemy materimy materials port organs.

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Veterinative ZI no. 117 / 3 / 7 for.

1. invance mayakhatanakaya in mistantakaya tahun maya matantaya sahahasiya.

GILIER, S.A., akademik; MEDIE, K.K.; VENTER, K.K.; GERMANE, S.K.;
ZHE, A.Ya.

Tuberculostatic effect of certain derivatives of unsaturated aldehydes and ketones of the 5-nitrofuran series. Dokl.AN SSSR 144 no.1:108-111 My 162. (MIRA 15:5)

1. Institut organicheskogo sinteza AN Latv SSR. 2. AN Latv SSR (for Giller). (Tuberculosis---Prevention) (Furan)

137-58-6-11496

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 34 (USSR)

AUTHOR: German-Galkina, A.S.

TITLE: An Investigation of the Interactions in the Na<sub>2</sub>O-Al<sub>2</sub>O<sub>3</sub>-M<sub>2</sub>O

System at 1200°C (Issledovaniye vzaimodeystviy v sisteme

Na 20 - Al 203 - MgO pri 12000)

PERIODICAL: Tr. Vses. n.-i. alyumin.-magn. in-ta, 1957. Nr 40, pp

25-31

ABSTRACT: An investigation is made of the interaction of the compon-

ents of a mixture corresponding to the system Na<sub>2</sub>O-Al<sub>2</sub>O<sub>3</sub>-MgO under isothermal conditions at 1200°C. Mixtures of various compositions [having a ratio of Na and Al oxides corresponding to Na aluminate (I) or spinel] were investigated. Roasting was for 2 hours, after which the roasted products were subjected to chemical analysis. In the course of the roasting at 1200° of mixtures corresponding to the Na<sub>2</sub>O-Al<sub>2</sub>O<sub>3</sub>-MgO system having different amounts of Na<sub>2</sub>O, the latter compound reacted with Al<sub>2</sub>O<sub>3</sub> in its entirety to form I. In mixtures with a stoichio-

metric amount of Na<sub>2</sub>O for I, no spinel was formed, owing to the reaction of replacement of MgO by Na oxide from the spinel.

137-58-0-11496

An Investigation of the (cont.)

Spinel forms in small amounts at 1000°, whereas at a further increase in temperature to 1200° the MgO is displaced from the spinel by Na<sub>2</sub>O. No ternary compounds are found in mixtures of the compositions investigated.

1. Abuminum oxide-Lagnesium oxide-Jodium-oxide-Chemical reactions

Card 2/2

SOT -81 -59-8-28040

Translation from: Referativnyy zhurnai. Khimiya, 1959, 9-8, p 354 (USSF)

AUTHORS:

Beneslavskiy, S.I., German-Galkira, A.S.

TITLE:

The Development of a Peinrology for the Production of Alumina From Bauxites of the Bokson Dayen

PERIODICAL:

Tr. Vost. Sib. fil. AS USSR, 1958, Nr 12, pr 43 - 50

ABSTRACT:

The characteristic of the composition of red varieties of Bokson bauxites and data on the technological testing of the samples of Bokson bauxites by the method of soda-limestone sintering are cited. The effect of the charge composition on the extraction of Al<sub>2</sub>O<sub>3</sub> and Na<sub>2</sub>O and the effect of MgO on the sintering process have been studied under laboratory conditions. Semi-industrial tests have been carried out with an optimum charge of the following composition: Na<sub>2</sub>O/Al<sub>2</sub>O<sub>3</sub> 1.3:1, CaO/SiO 2:1; conditioned limestones and those with a MgO content of 6%; sintering temperature 1,150 - 1,200°C; the sinters were leached out by solutions with a Na<sub>2</sub>O contentration of 100 g/l and a caustic module of 1.5 in the final solution. The sintering was carried out in a rotating furnace with an output of 100 kg of tharge for hour.

Card 1/2

SOV/81-59-8-28040

The Development of a Technology for the Production of Alumina From Bauxites of the Bokson Layer

The leaching of the finely ground (-0.175 mm) sinter was carried out by the agitation method (a higher extraction of  ${\rm Al}_2{\rm O}_3$ ), and of granulated sinter by the diffusion method. It has been shown that the processing of Bokson bauxites by the method of soda-limestone sintering makes it possible to attain a high extraction of  ${\rm Al}_2{\rm O}_3$  and  ${\rm Na}_2{\rm O}$ .

N. Shiryayeva

Card 2/2

BENESLAVSKIY, S.I.; GERMAN-GALKINA, A.S.

Developing an alumina production technology from Bokson deposit bauxites. Trudy Vost.-Sib.fil. AN SSSR no.12:43-50 (HIRA 11:11)

1. Vassoyuznyy alyuminiyavo-magniyavyy institut.
(Bokson Vallay--Bauxites) (Alumina)

44 (17) SESTERS NO. - AND REAL PROPERTY OF THE PROPERTY OF THE

31.91

SOV/137-59-5-10085

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 92 (USSR)

Beneslavskiy, S.I., German-Galkina, A.S. AUTHORS:

Preparation of Alumina From Bauxites of the Tatarskiy Deposit TITLE:

Tr. Vost-Sib. fil. AS USSR, 1958, Nr 12, pp 120 - 136 PERIODICAL:

Bauxites from the Tatarskoye deposit have a rather variegated chemical composition. The content of basic components varies ABSTRACT: within the following limits (in %):  $SiO_2$  0.5-24,  $Al_2O_3$  27-62, Fe<sub>2</sub>0<sub>3</sub> 5-53, TiO<sub>2</sub> 3.5-17. Laboratory investigations were carried out to determine conditions for processing such bauxites. Ground bauxite with grain dimensions passing through a 0.15 mm sieve, was leached by an alkali-aluminate solution of Na20 caust with a concentration as high as 200 g/1 and a caustic modulus of 3.6 at 105°C. The authors investigated the causes affecting the rate

of slime deposition. The technological process developed under laboratory conditions was tested at the experimental base of the Ural Aluminum Plant with respect to the following basic technolo-

gical conversion processes: 1) drying of bauxite in a revolving Card 1/2

SOV/137-59-5-10085

Preparation of Alumina From Bauxites of the Tatarskiy Deposit

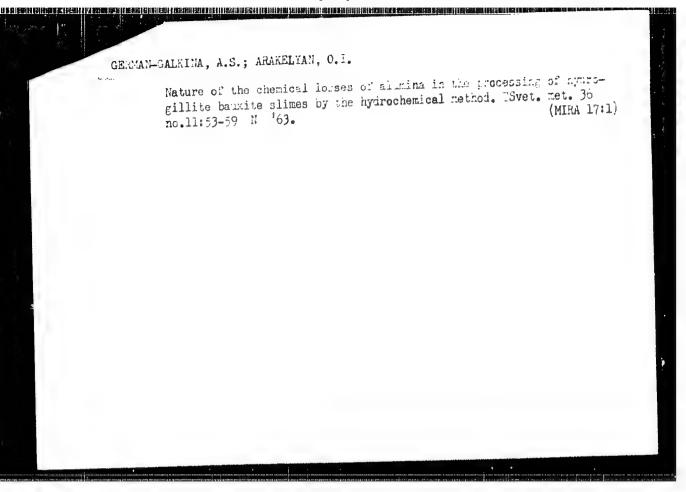
furnace at 280° and 450°C; 2) lixiviation in an autoclave with an alkalialuminate solution of Na<sub>2</sub>O with a concentration of 280 g/l and fina. a caustic 1.7, during 2 hours; 3) separation of the solution from the slime in a continuously operating thickener. Extraction of Al<sub>2</sub>O<sub>3</sub> under semi-industrial conditions was 89.7% (drying temperature - 280°C, lixivation temperature - 170°C).

Card 2/2

GERMAN-GALKINA, A.S.; ZLOKAZOVA, T.M.; MEL'NIKOVA, V.P.: SIDORENKO, V.V.

Use of hydrocyclones in thickener units for the separation of solids in alumina-bearing sinters. TSvet. met. 34 no.1:52-54,

Ja 61. (MIRA 17:3)



GENMAN PROZURVA. Lyutsiya Pavlovas; VILOGRADOVA, Bine Ivanovas; KREYTSER,
GENMAN PROZURVA. Lyutsiya Pavlovas; VILOGRADOVA, Bine Ivanovas; KREYTSER,
V.I., prof. doktor tekhn.nauk, red.; GOS, h.i., kand.tekhn.nauk, red.;
KARPOV, V.G., kand.tekhn.nauk, red.; MALAKHOV, I.K., inzh., red.;
LEVIT, A.B., inzh.red.; LEPESHINSKAYA, Ye.V., red.; ERIDNO, K.F.,
takhn.red.

[English-Russian radiotechnical dictionary] Anglo-russkii radiotekhnicheskii alovar'. Pod obahchei red. V.L.Kreitsera. Red.
kollegiis: M.E.Gos i dr. Moskva, Gos.izd-vo tekhniko-teoret.
kollegiis: M.E.Gos i dr. Moskva, Gos.izd-vo tekhniko-teoret.
(MIRA 11:2)
lit-ry, 1957. 524 p.
(Redio-Dictionaries)
(English language-Dictionaries-Russian)

GERMAN-PROZOROVA, Lyutsiya Pavlovna; VINOGRADOVA, Nina Ivanovna; KREYTSER, V.L., prof., doktor tekhn.nauk, red.; GOS, M.E., kand.tekhn.nauk, red.; KARPOV, V.G., kand.tekhn.nauk, red.; LEVIT, A.B., inzh., red.; MALAKHOV, I.K., inzh., red.; LEPESHINSKAYA, Ye.V., red.; BRUDNO, K.F., tekhn.red.

[English-Russian radio engineering dictionary] Anglo-russkii radiotekhnicheskii slovar'. Pod obshchei red. V.L.Kreitsera. Red. kollegiia: M.E.Gos i dr. Moskva, Glav.red.inostr.nauchno-tekhn. slovarei, 1960. 524 p. (MIRA 13:7)

(Radio-Dictionaries)
(English language-Dictionaries-Russian language)

GERMAN-PROZOROVA, Lyutsiya Pavlovna; YAMKEL'SON, I.S.; KRSYTEHR, V.L.,
prof., doktor tokim.nauk, red.; GOS, M.E., kond.tekin.nauk,
red.; LEPESHINEKATA, Ye.V., red.; KRYUCHKOVA, V.H., tekin.red.

[English-Russian television dictionary] Anglo-russkii slovar'
po televideni.u. Pod obshchel red. V.L.Kreit.sere pri red.uchastii
M.S.Goso. Moskva. Glavnaie red.inostr.nauc'uno-tekim.slovarei
Fizmatgiza, 1960. 427 p.
(Television-Dictionaries)

(English language-Dictionaries-Russian language)

Color VHY - 11 x12 Shelle Color

AID P - 4643

Subject

: USSR/Aeronautics - radio

Card 1/1

Pub. 135 - 9/26

Author

: German-Yevtushenko, I. A., Lt. Col.

Title

: Audible reception of homing radio station calls

HANGARANIN SANTAGARANIN SANTAN PARAMBARANIN PERMABARAN PERMABARAN SANTAN BANTAN BANTA

Periodical: Vest. vozd. flota, 5, 46-48, My 1956

Abstract

: Description of the training of pilots in an aviation school in recognition of homing radio stations by audible reception of their call code letters. One sketch. The article is of no particular interest.

Institution: None

Submitted : No date

KOSTETSKIY, B. I., doktor tekhn. nauk, prof.; GEEMANCHUE, F. K., insh.

Analyzing the use of friction materials in braking devices.
Vest. mashinostr. 42 no.10:3-7 0 '62. (MIRA 15:10)

(Brakes)

GERMANE, S.; Belenkii, M.

On the action of acrichine (mepacrine) on the effect of hexenal (hexobarbitone) and morphine; contribution to the relation between chemical constitution and neuroplegic activity. In Russian. p. 153.

LATVIIAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 3, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2, Feb. 1960 Uncl.

BELEN'KIY, M.L.; GERMANE, S.K.; AREI, A.K.; VAMAG, G.Ya., akudenik

A new class of pharmacologically active substances with a wellpronounced effect on the central nervous system. Dokl.AM SSSR
134 no.1:217-220 S '60. (MIRA 13:8)

1. Institut organicheskogo sinteza Akudenii nauk LatvSSR.
2. Akademiya nauk LatvSSR (for Vanag).

(INDANDIONE) (PHARMOCOLOGY)

GERMANE, S. (Riga)

Materials on pharmocology of 2-amino-2-phenylindandione-1,3 derivatives. 1. Toxicity and narcotic activities of aminophenylindan-dione derivatives. (To be contd.) Vestis Latv ak no.10:129-134 (EEAI 10:9:10)

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(Amino phenylindandione)

GERMANE, S. (Rige)

Materials on pharmocology of 2-amino-2-2phenylindandione-1,3 derivatives.

Part 2. Antispasmodic activity of 2-amino-2- phenylindandions-1,3 derivatives. Vestis Latv ak no.11:127-132 160. (EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(Amino phenylindandione) (Antispasmodic)

GERMANE, S.(Riga)

Materials on pharmacology of 2-amino-2-phenylindandione-1,3 derivatives.

3. Analgesic effect of 2-amino-2-phenylindandione-1,3 derivatives.

Vestis Latv ak no.12:153-158 '60. (EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(Staphylococcus) (Nitrofuran) (Antibiotics)

GERMANE, S. (Riga)

Materials on pharmacology of 2-amino-2-phenylindandione-1,3 derivatives.

4.0n the pharmacology of 2-methylamino-2-phenylindandione-1,3 hydro-chloride (V-39). 5.0n the pharmacology of 2-ethylamino-2-phenylindan-dione-1,3 hydrochloride (V-31). Vestis Latv ak no.1:121-130 '61.

(EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(Aminophenylindandione) (Analgesics) (Methyl group) (Hydrochlorides)

GERMANE, S.

Pharmacology of 2-amino-2; henyl-1, 3-indandione derivatives. Report 4. Pharmacology of 2-methylamino-2-phenyl-1,3-indandione hydrochloride (V-39). Report 5. Pharmacology of 2-ethylamino-2-phenyl-1,3-indandione hydrocloride (V-31). Vestis Latv ak no.1:121-130 161.

1. Institut organicheskogo sinteza All Latviyskoy SSE.

GRINSHTEYN, V.Ya. [Grinsteins, V]; MEDNE, K.K.; ZAYEVA, S.P.; STOLYCHO,
N.S.; VEVERIS, A.P.; GERMANE, S.K.; ALBERTA, M.A.; GRICALIFOVICH,
G.A.; TRAMER, V.A., ZELCHA, S.B. [Zelca, S.]

Tubercolastatic properties of mixed thiosemicarbazone guanylhydrazone 1,3-indandione, a representative of a new type of
antitubercular substances. Dokl. AN SSSR 147 no.5:1083-1095
D'62.

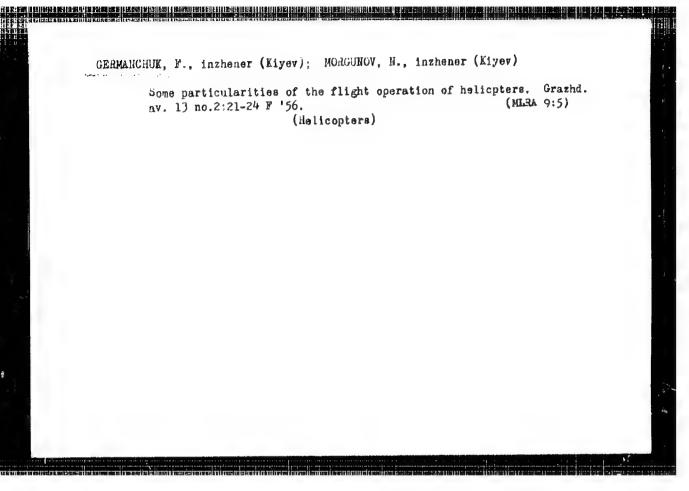
1. Institut organicheskogo sinteza i Institut eksperimental'noy
i klinicheskoy meditsiny AN Labviyskoy SSR. Predstavleno akademikom A.N. Nesmeyanovym.
(TURERCULOSIS) (ANTIBIOTICS) (KETONES)

ZAYEVA, S.P.; GILLER, S.A.; GE MANE, S.K.; STFADYN', [Stradin, J.P.]; ALEKSEYEVA, L.N.; KRUZMETRA, L.V.; AL'BERTE, M.A.; AYZPURIETE, I.F. [Aizpuriete, I.F.]; KALMBERG, R.Yu. [Kalmberg, R.J.]

Experimental study of furazolin (F-150), a new preparation of the nitrofuran series. Zhur.mikrobiol., epid. i immun. 32 no.10: 17-20 0 '61. (MIRA 14:10)

1. Iz Instituta organicheskogo sinteza AN Latviyskoy SSR. (FURAN)

ACC NR: AP6031127 SOURCE CODE: UR/0197/66/000/008/0119/0126 AUTHOR: Germane, S. K.; Kimenis, A. A.; Popova, N. A.; Fridrikhson, E. Ya. ORG: Institute of Organic Synthesis, AN LatSSR (Institut organicheskogo sinteza AN LatSSR) TITLE: Toxicology of the new herbicide phenzaone (chlorazan) 1-phenyl-4-amino-5chloropyridazone-6 SOURCE: AN LatSSR. Izvestiya, no. 8, 1966, 119-126 TOPIC TAGS: herbicide, toxicology, animal experiment, weed killer, pyridine, phenyl compound, mouse, rabbit ABSTRACT: Results of a toxicological study of 1-phenyl-4-amino-5-chloropyridazone-6 showed that it possessed low toxicity for mice feeding upon it or receiving it interperitoneally. Field tests . on rabbits showed that irritating amounts of the compound did not affect growth nor cause pathological changes in organs and : tissues of rabbits. [WA-50; CBE No. 12] SUB CODE: 06/ SUBM DATE: 10Mar66/ ORIG REF: 006/ OTH REF: 006/ Card 1/1



1.4320

s/197/62/000/011/001/003 B108/B186

AUTHOR:

dermanis, E.

TITLE:

Pulse generator with tunnel diode and transistor

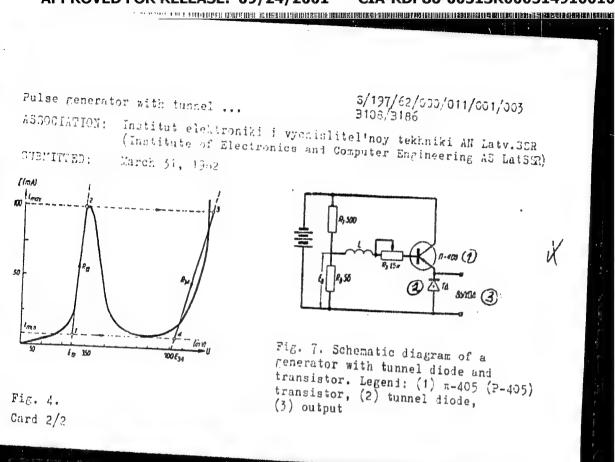
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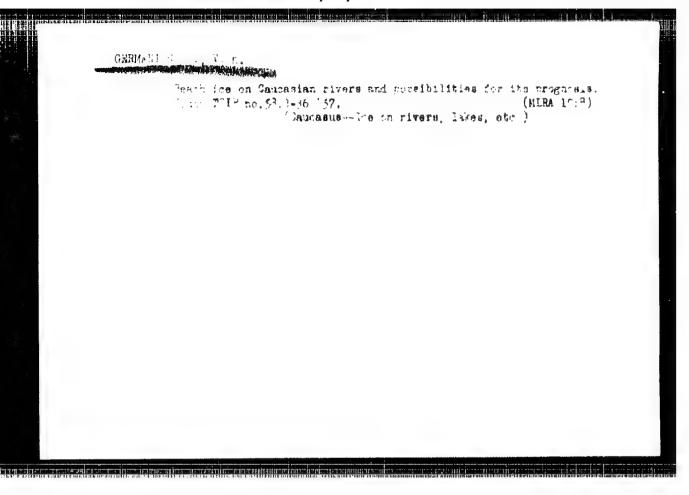
Akademiya nauk Latviyskoy SSR. Izvestiya, no. 11 (184),

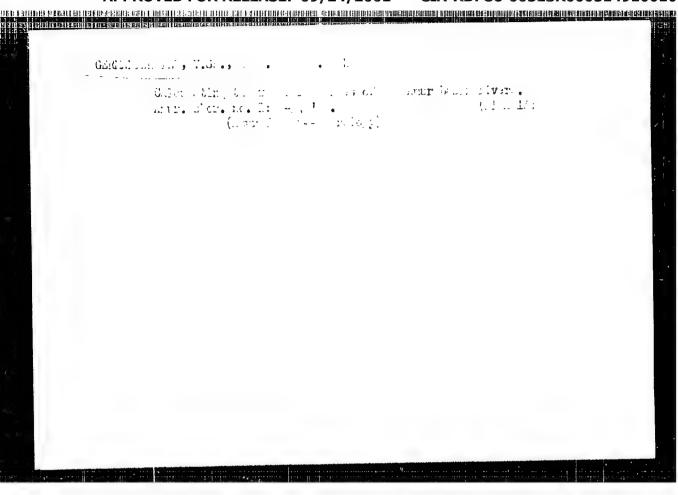
1962, 21-28

TEXT: The chief advantages of a pulse generator with a tunnel diode and a transistor over a generator with only a tunnel diode are pointed out. In the former the tunnel diode is replaced by a two-terminal unit consisting of an emf, a tunnel diode, and a transistor (Fig. 7). The voltampere characteristic of such a two-terminal unit is shown in Fig. 4. Theoretically this characteristic is approximated as the sum of the linear approximations of the characteristics of the transistor diode junction and of the tunnel diode. The frequency of such a generator is higher than that of a tunnel diode generator and may reach a pulse repetition rate of several Mc. Moreover, its power can be kept higher. There are 7 figures.

Card 1/2







EMLEVICH, V.V.; SHVETSOVA, V.F.; ZHITYAYKINA, N.F.; BYKADOROY, I.S.;

IVANOV, G.I., kend.sel'skokhoz.nauk; GERMAHISHVILI, V.Sh.,

kend.geogr.nauk, reteenzent; SCKOLOV, I.F., reteenzent;

KALMYKOVA, V.V., reteenzent; LYUBOHUDROVA, S.V., reteenzent;

KRUZHKOVA, T.S., reteenzent; BOYKOVA, K.G., reteenzent;

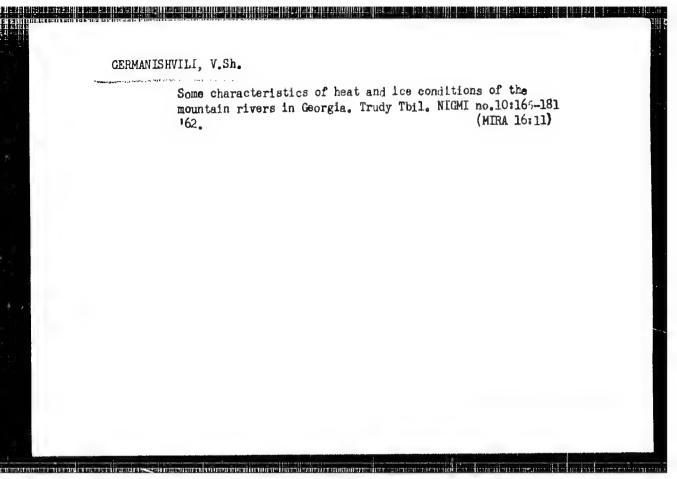
NOVSKIY, V.A., otv.red.; VLASOVA, Yu.V., red.; SERGEYEV, A.H.,

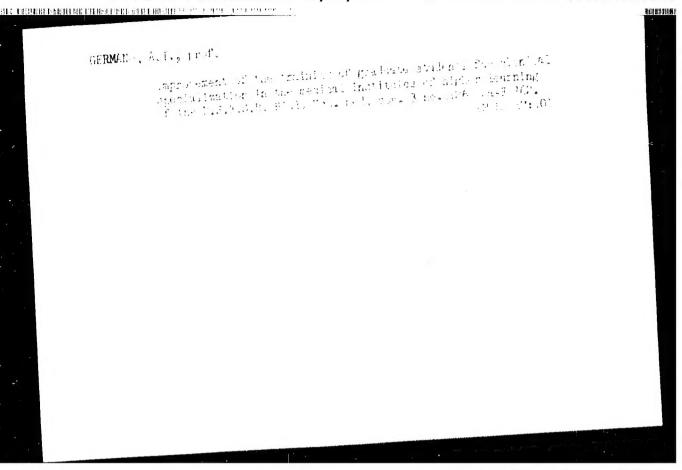
tekhn.red.

[Agroclimatic manual for the Maritime Territory] Agroklimaticheskii spravochnik po Primorskomu kraiu. Leningrad. Gidrometeor.izd-vo. 1960. 129 p. (MIRA 14:4)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. Prinorskoye upravleniye. 2. Vladivostokskaya gidrometeorologicheskaya observatoriya (for Belevich,
Shvetsova, Zhityaykina, Bykadorov). 3. Dal'nevostochnyy nauchnoissledovatel'skiy gidrometeorologicheskiy institut (for Germanishvili,
Sokolov, Kalmykova, Lyubomudrova, Krushkova, Boykova).

(Maritime Territory--Crops and climate)





GERMANOV, A., agronom

Prom practice of the "Priamur's" Collective Farm. Sots.trud 4
no.12:106-110 D '59.

1. Kokhoz "Priamur'ye" Tambovskogo rayona Amurskoy oblasti.
(Amur Province--Agriculture--Income distribution)

MOSKALEV, Vladimir Iosifovich; GERMANOV, Aleksandr Aleksandrovich; SHA-TSILLO, O.I., red.; FOMICHEV, A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Description of systems using three-phase magnetic amplifiers for controlling the power supply of electric furnaces] Opisanie ustanovok s ispol'zovaniem trekhfaznykh magnitnykh usilitelei (TMU) dlia reguliruemogo pitaniia elektricheskikh pechei. Leningrad, 1961. 20 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Promyshlennaia energetika i gazifikatsiia prompredpriiatii, no.3)

(Electric furnaces) (Magnetic amplifiers)

(Electric power supply to apparatus)

VCROPAYEVA, S.D.; GAL-3001, V.I; GARLAROV, A.B.

Increase in sensitivity to penicillin in registant bacteria.
Antibiotiki 6 no.12:1120-1123 D '61. (KL.A 15:2)

1. Kafedra mikrobiologii (zav. - prof. M.N.Lebedeva) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(PENICILLII)